

## SF-ICP-MS

(Element 2 from ThermoFinnigan)



This instrument is a double focusing magnetic sector field ICP-MS with the main following characteristics:

- multielement analysis
- fully automatically change between three fixed resolutions (300-4000-10000)
- high sensitivity ( $>1 \cdot 10^6$  cps/ppb in LR)
- low background
- large dynamic range
- high precision isotope ratios
- fully automated tuning and analysis.

### Some particular applications:

- Measure of Ge/Si ratios in different sample type such as rocks, clays, soils and plants (mean concentration for natural standard IF-G agree within 1% of certified value).
- Determination of REE+Y contents in rocks with very low content such as BIFs. Most of our concentration agree within 5 % of certified values.
- Measure of Ba in sea water by ID.
- Precise measure of  $^{229}\text{Th}/^{230}\text{Th}$ .
- Optimisation of a precise determination of  $^{28}\text{Si}$  and  $^{30}\text{Si}$  for determining the biogenic silica dissolution: production ratios in the surface oc



- Analysis of Ra in very low content.

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